



Side Dressing

Making up Row

Planting Beans

IRON AGE

Farm, Garden and Orchard Implements

American Factory Established 1835

Bateman Manufacturing Co.

Glenloch, New Jersey, U. S. A.

Canadian Factory Established 1888

The Bateman-Wilkinson Co., Ltd.
Toronto, Ont.

IRON AGE Variety Machine

Corn, Bean and Pea Planter
Cotton Planter, Peanut Planter

Side Dresser

Asparagus Ridger
Row Maker Row Marker

All in One



Making Four Rows



Planting Corn

A Machine of Many Uses, Saves Storage Space and Reduces Investment

A more useful or better-paying machine around the farm than an IRON AGE Variety Machine would be hard to find. In addition to the particular form of the machine which the purchaser has obtained, he can get attachments that quickly adapt the machine to any of the forms noted below. The necessity of buying a new machine for each operation is thus avoided, saving a considerable investment in machinery and putting into small storage space all that is required to do the work in a thoroughly efficient and proper way.

Except for the No. 142 Asparagus Ridger, and the Row Markers and Furrowers shown on the last page, we have here an implement built on the unit plan

which can be purchased in any form and added to or changed into any of the following machines:

Corn, Pea and Bean Planter

Cotton Planter

Peanut Planter

Side Dresser

Asparagus Ridger

Row Maker

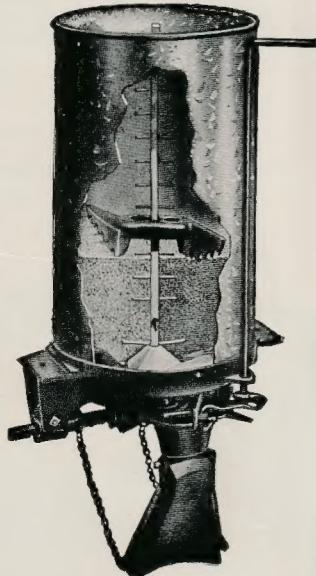
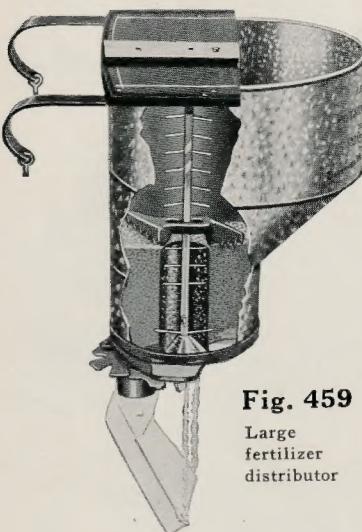
Row Marker

All changes are easily made. Each machine is complete in itself and does its work as it *should* be done. Nothing is sacrificed because of the combination feature and you have the satisfaction of knowing that you have an implement that can be used throughout most of the year in many very practical ways.

The Fertilizer Distributor

used on the IRON AGE Variety Machine is the same one that has been used so successfully for many years on the IRON AGE Potato Planter. Distributes all kinds of commercial fertilizers without waste. A scraper, placed on top of the fertilizer drops by its own weight as the material feeds from under it. (See Fig. 458). A square shaft with steel cross pins revolves the scraper and keeps an open space in the centre—fertilizer falls through this space, light and loose, on a cone, and is forced to the spreader by a feed wheel. The amount is regulated from the seat by a lever, saving waste in turning at ends of rows. A cover on the hopper keeps the fertilizer from being blown about. Spreads in two streams in the sides of the furrow where it cannot possibly injure the seed because the seed row is made in the middle. Three-inch clearance between spreader and ground. The fertilizer is shut off whenever the lever controlling the planter or disc attachments is used.

Two sizes of fertilizer hoppers are obtainable for the Variety Planter, Fig. 458 and Fig. 459 shown here. Fig. 458 is the regular size furnished unless Fig. 459 is indicated on the order. Fig. 458 carries about 90 lbs. of commercial fertilizer and Fig. 459 a full bag of 167 lbs.



No. 148P Corn, Bean and Pea Planter

The scientific method with which this machine sows the fertilizer is of very great importance. The mixing of the fertilizer with the soil is thoroughly done, so that a fine, rich seed-bed is made ready for the seed, and fertilizer cannot come in contact with the seed.

The fertilizer distributor used on this machine is the same as used on the IRON AGE Potato Planter and is described on preceding page.

The furrow made for the seed is narrow and the seed dropped in closely so it cannot scatter. Coverers bring exactly the right amount of soil over the seed, covering it thoroughly and evenly. The packing roller then presses the warm, fresh, moist soil closely around the seed so that early germination is assured. A marker lays out the next row.

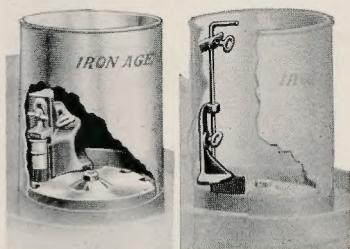
This machine does the entire operation of planting corn, beans, and peas *at one time*, as follows:

1. Opens a furrow in prepared ground for the fertilizer.
2. Sows the fertilizer, mixing it thoroughly with the soil.
3. Covers the fertilizer.
4. Levels the ridge.
5. Opens another, narrower furrow for the seed.
6. Sows the seed close to the ground so it will not scatter.
7. Covers the seed.
8. Rolls and packs the soil.
9. Marks next row.

The Seed Hopper is similar to the one used on the IRON AGE Potato Planter for many years when changed to plant corn, beans and peas. It sows peas accurately in continuous rows and will drop corn or beans in hills $7\frac{1}{2}$, 9, 12, $15\frac{1}{2}$, $18\frac{1}{2}$, or 20 inches apart, and the right amount in each hill. Each

outfit includes among other parts, a frame and adjustable brush which pushes the surplus seed from the openings in the seed plates, an adjustable gate which regulates flow of pea seed, and set of six plates, five for corn and beans, and one corrugated plate for peas and also a set

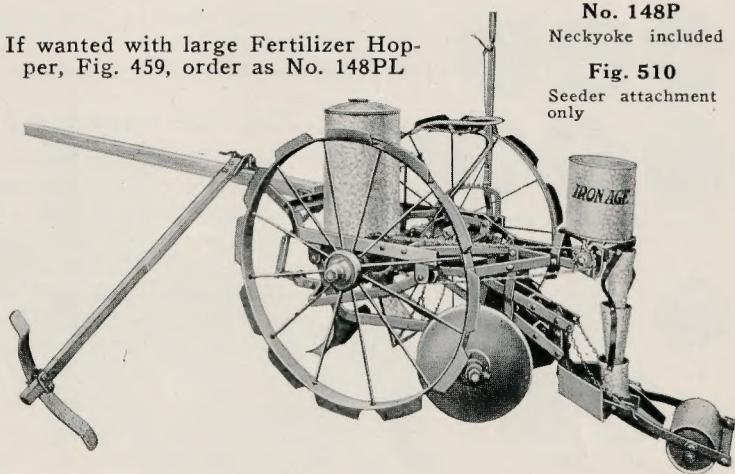
Fig. 267



For corn and beans

For peas
Gate open

If wanted with large Fertilizer Hopper, Fig. 459, order as No. 148PL



No. 148P
Neckyoke included

Fig. 510
Seeder attachment
only

of double distance seed plates (Fig. 296) for dropping the seed twice as far apart or 15, 18, 24, 31, 37, or 40 inches.

The seed is dropped through a set of galvanized seed tubes to the rear of the seed plow. This seed plow does not show in the illustration of the planter, but is located behind the V-shaped leveler.

When the seeder mechanism is raised from the ground by lever at the same time as plow and disc gangs, its frame folds up like a jack knife and when released, settles naturally and freely into place. The lever shuts off flow of seed and fertilizer when it raises the gangs.

Deep Pea Planting Attachment

For those who desire to plant peas deeply, we can supply a special plow for deep and wide planting with special coverers to take care of this deeper and wider furrow. (See

No. 148P Corn, Bean and Pea Planter (continued)



Regular seed plates for corn,
beans and peas



Fig. 296
Double distance seed plates



Fig. 265
Side dressing attachment

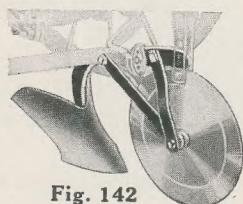


Fig. 142

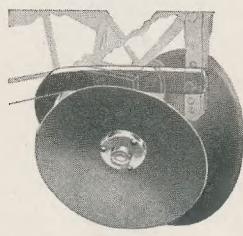


Fig. 218

Fig. 512.) Plants about $4\frac{1}{2}$ inches deep and makes a flat-bottom furrow $2\frac{1}{2}$ inches wide so peas can spread out in it. The parts should be ordered as Attachment Fig. 512.

Fig. 265 Side Dressing Attachment

This double-spreader puts quick-acting fertilizers, such as nitrate of soda, where they do the most good—on each side of the growing crop. This forces the crop to early maturity, and you can get to market when prices are highest. This has become common practice with most market gardeners, also, because the crop is tenderer and has a more ready sale. Our fertilizer distributor handles nitrate of soda in good shape. The holes at top of spreader will adjust it so that fertilizer will fall in the centre and be divided evenly, no matter how much you sow. Fig. 265 fits any IRON AGE Fertilizer machine.

The fertilizer may be covered in same trip by attaching covering discs as in Fig. 522, page 5, but you must use your own judgment about this. Most growers apply side dressing just before cultivation.

Fig. 346 Marker Attachment

Fig. 346 shows in black, parts necessary to make No. 148 into a Row Marker or when added to No. 148P Planter makes a complete machine known as No. 147PRM.

Single or Double Disc Opening Plows

Can be furnished in place of the plain opening plow shown in Fig. 522, page 5. If wanted with single disc plow, Fig. 142, add letter "A" to the number of the machine being ordered. If wanted with double disc plow, Fig. 218, add letter "B" to the number of the machine being ordered.

Leveler Attachment

This is of special advantage in planting peas or leveling a ridge where fertilizer or manures have been distributed. Order as Fig. 295.

Steadyng Wheels

Fig. 344 shows steadyng wheels which are not furnished except as an extra attachment. They are sometimes used in connection with the covering discs where the furrow has been opened in advance. They run just ahead of the discs on the side of the furrow, and steady the machine for proper covering.



Fig. 512

Special plow and coverers for planting of peas



Fig. 346

Black parts
show marker
as attachment
only
Raised clear
of ground
when turning



Fig. 295

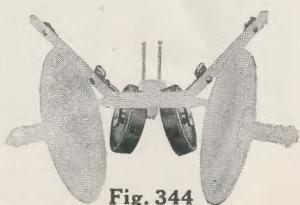
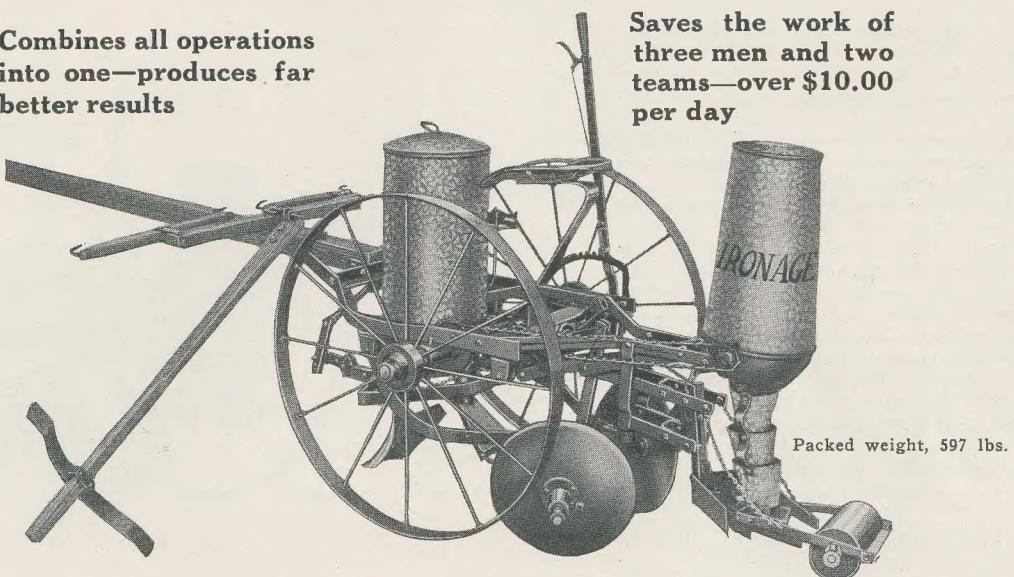


Fig. 344

No. 146 Cotton Planter

Combines all operations
into one—produces far
better results

Saves the work of
three men and two
teams—over \$10.00
per day



Packed weight, 597 lbs.

If wanted with large Fertilizer Hopper, Fig. 459, order as No. 146L

"With one man and two mules operating one of these planters I was able to do the same work that formerly required four men and six mules, and the work was done really better than when done with the one-horse implements formerly used." So says Mr. L. W. Shook, of Tarboro, N. C.

Wherever this wonderful machine is tried, it meets with the same sensational success, and words of praise come thick and fast.

One man can do the work of four, and one team the work of three teams with this planter because it *combines the operations*.

A clear saving of over \$10.00 a day is made—enough saved in a few days to pay for the machine.

It opens the furrows, sows fertilizer where it cannot injure seed, makes the list with the covering discs, at the same time mixing the soil and fertilizer and leveling list to any desired height of seed-bed, opens a seed furrow, sows the seed, covers it, rolls it, and marks next row.

Notice especially that the fertilizer does not come in contact with the seed, as it is thoroughly mixed with the soil and the list made up before seed is planted.

Combining all operations into one also prevents drying out of the soil, as generally occurs when the ground is worked over several times. This machine plants the seed immediately into a fresh, moist seed-bed, assuring a quick, healthy start for the plant.

A positive sowing device in the bottom of a large hopper takes care of the seed and we use the same fertilizer distributor as used for years on IRON AGE Potato Planters and Truckers' Variety Planters. Both fertilizer and seed hoppers are heavily galvanized.

All necessary adjustments are provided for depth of the furrow, height of list, and depth of planting. One lever shuts off the flow of seed and fertilizer at the same time.

A rear roller is provided for packing the soil after covering the seed.

The construction throughout is of special analysis steel, and combines light weight with durability and ease of operation.

By obtaining the proper attachments, this machine can be readily changed into a Peanut Planter, a Corn, Pea and Bean Planter, Asparagus Ridger, Side Dresser, Row Maker, or Two-Row Marker, as shown elsewhere in this booklet.

No. 144 Peanut Planter

Like the Corn, Bean and Pea Planter and the Cotton Planter, this form of the IRON AGE Variety Machine opens the fertilizer furrow, sows the fertilizer, mixing it thoroughly with the soil in a fine loose "list," cuts a furrow for the seed at uniform depth, plants the seed, covers it, packs the soil and marks the next row all at one time.

The fertilizer distributor is the same as on the other forms and is described fully on page 1. In fact, the machine is like the Cotton Planter and the Corn, Pea and Bean Planter in all respects, except for the peanut seeding attachment, and can be used with the same attachments as either of those machines.

The seed sowing is by the cup chain method with a vibrating arm which removes surplus seed from the cup without injuring the seed. A change of sprockets is furnished to drop seed 8, 12, or 16 inches apart in the row. Plow is adjustable for depth.

- No. 144. Peanut Planter with Fig. 458 Fertilizer Hopper.
- No. 144L. Same with Fig. 459 (large) Fertilizer Hopper.
- Fig. 511. Peanut Seeding Attachment only.

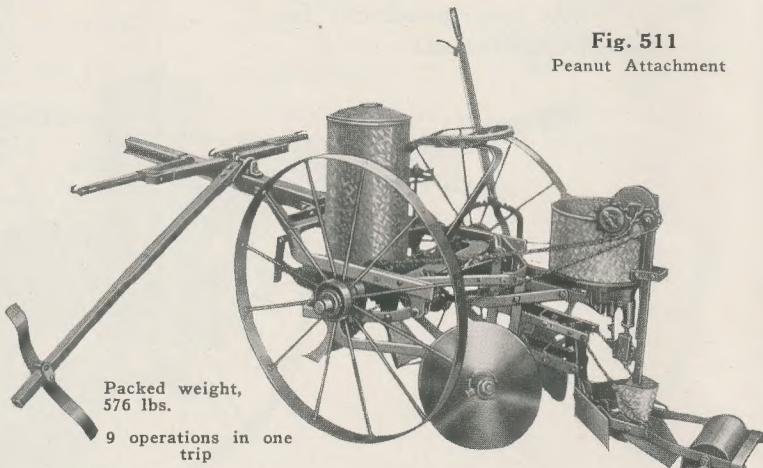
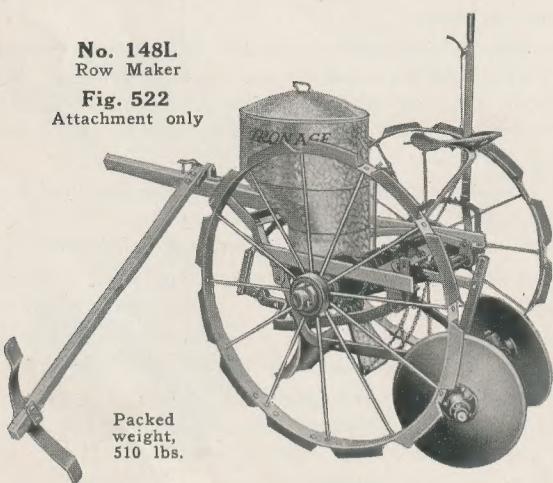


Fig. 511
Peanut Attachment

No. 148 Row Maker

No. 148L
Row Maker

Fig. 522
Attachment only



This machine will open its own furrow in prepared ground, sow the fertilizer and mix it thoroughly with the soil as it covers it, makes up the list, and marks next row all in the same operation.

The fertilizer distributor used on this machine is described on page 1.

One lever raises plow and disc gangs and shuts off flow of the fertilizer all at the same time. The plow is adjustable for depth. Discs are 16-inch and adjustable for height and angle, and are fitted with grease cups. Any kind of covering can be done—flat, medium or high ridge. Adjustable marker. See page 3 for leveler attachment which can be used with the discs.

- No. 148. Row Maker with Fig. 458 Fertilizer Hopper.
- No. 148L. Row Maker with Fig. 459 (large) Fer. Hopper.
- Fig. 522. Row Maker Attachment only.

Cannot be built up into any other form of variety Machine, but this attachment fits Nos. 147 and 148 machines

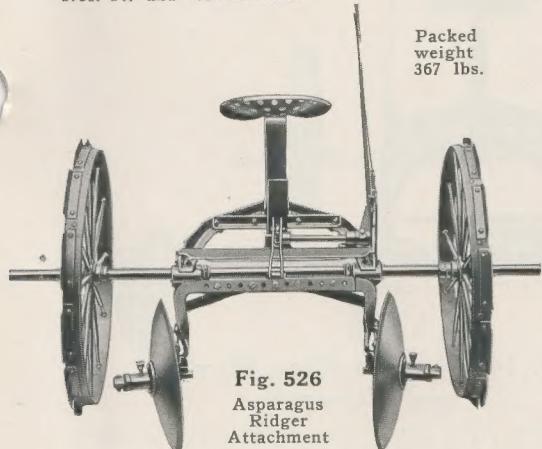


Fig. 526
Asparagus
Ridger
Attachment

Ask us
about
Asparagus
Knives

Packed
weight
367 lbs.

No. 142 Asparagus Ridger

Ridging of asparagus after each cutting is important because repeated cutting and rains wear the ridges down and allow the weeds to get thick and heavy. By this ridging, loose soil is thrown up on the beds by large discs which are adjustable for angle, width and height of the ridge, and this soil serves to support and protect the lower part of the stalks so they will not be broken in the cutting season. The wheels can be adjusted each side on the axle to make them track from 3 feet 1 inch, up to 6 feet 2 inches. The discs can be set to make a ridge 16 inches wide at the bottom and 6 inches at the top, up to 36 inches at the bottom and 24 inches at the top. The axle is 1½ inches in diameter and one wheel is fixed as a pivot for turning.

This machine is also excellent for *ridging celery*, as it makes even higher and larger seed beds than can be made with the No. 148 Truckers' Variety Machine. It is also extensively used for killing weeds and high grass before potato digging.

This machine is not the same as the IRON AGE Trucker's Variety Machine. It does not include the clutch parts on the axle nor rear or front gang lugs on the frame, and has 36-inch wheels without ratchets, therefore it cannot be built up into the planter forms. However, the Asparagus Ridger Attachment is known as Fig. 526 and this can be readily applied to your No. 146, No. 147, No. 148, No. 148P, or No. 144 machine.

No. 142. Asparagus Ridger with 20-inch Discs, for the *Green Variety* of Asparagus.

No. 142L. Same with 24-inch Discs, for the *White Variety* of Asparagus.
Fig. 526. Asparagus Ridger Attachment, to fit No. 144, No. 146, No. 147, No. 148 and No. 148P machines.

No. 147 Row Marker

With this form of the IRON AGE Variety Machine, two rows can be marked from 28 inches to 5 feet apart, the discs being adjustable on the cross bar every inch and a half on each side, between the limits.

The marker pole is extended twice the width at which the discs are set, the horses walk on each side of the mark, and the rows come just right. A lever controls the depth at which the discs work and also raises the entire marker attachment clear of the ground when turning. Rear bar locks down in the center only.

The marker bar is raised and automatically locked on the circular arch when turning at ends of rows or when on the road.

This machine is used for check rowing corn land and preparing ground for planting other crops. The rows are made straight, even on hillsides. A covering attachment as shown at the right of the picture is included, so that you can use the machine as a coverer by taking off the rear bar, attaching covering frame and using same discs as you had for marking.

No. 147 Row Marker has a 5-foot axle. When wider machine is wanted, we can

supply one with a 6-foot axle and marker bar to match on which adjustment limits are 28 inches to 6 feet apart. When the wider form is wanted order as No. 147W.

No. 147 can be built up into any of the planters shown in this booklet, or into the No. 148 Row Maker, by ordering the plow gang, marker bar, fertilizer distributor and desired planter attachment.

No. 147
Row
Marker



Packed weight, 435 lbs. Neckyoke included with each machine

Marks rows 28 inches to 5 feet apart. See note for wider machine in text; also page 8 for other markers

Wheels can be adjusted on axle as follows:
5 foot axle, 6 in.
each side
6 foot axle, 16½ in.
each side

Fig. 524

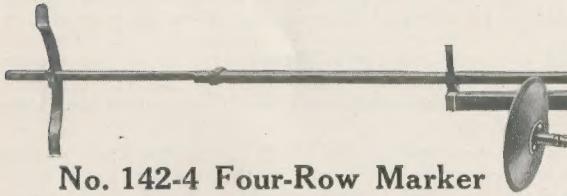
Row Markers Only

Does twice the work of any two-row marker and does it just as easy

Packed weight,
438 lbs.

No. 142-4

Used as a Marker only



No. 142-4 Four-Row Marker

This machine differs from the other machines shown in this catalog in that it cannot be built up into a Planter, Coverer, Row Maker, etc., like the regular Variety Machine shown elsewhere throughout this book. The wheels are 36 inches in diameter, have no ratchets, and the frame is stripped of the mechanism used to control the Planter and Fertilizer Distributor Attachments. It has a 1½ inch axle and the same angle steel frame as used on the No. 142 shown on page 6.

The No. 142-4 has a wide marker bar and a wide axle to correspond. The bar has a *double* lockdown, controlled by the lever. This keeps the bar always in place and makes the discs do their full work.

The bar is arranged to mark four rows, 28, 30, 33, or 36 inches apart. 16-inch discs are used and are adjustable for angle. Each disc hub is provided with a grease cup.

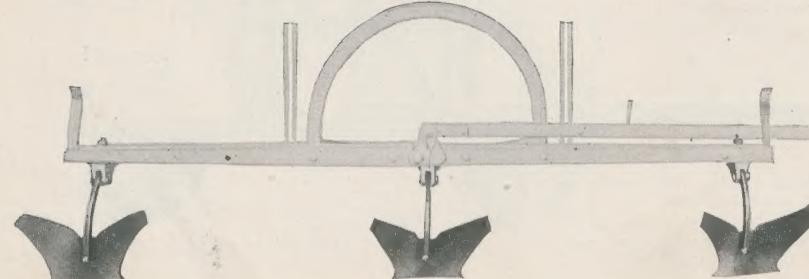
The Marker Bar is raised and automatically locked on the circular arch, when turning at ends of rows or when on the road.

If this machine is wanted with four furrowers (Fig. 441, bottom of page) instead of discs, order complete machine as No. 142-4F.

No. 142-2 Two-Row Marker

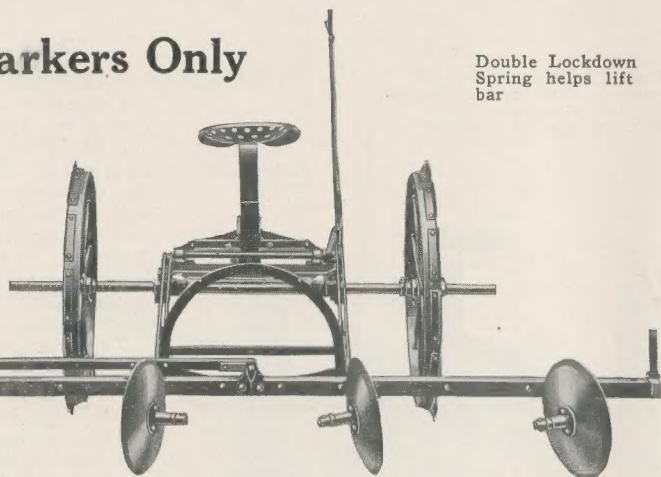
Same as above except shorter marker bar, shorter axle, and arranged for *two* rows only, with discs to mark the rows.

In this form, this machine will mark rows from 28 inches to 5 feet apart. Packed weight, 283 lbs.



No. 142-3 Three-Row Furrower

Double Lockdown Spring helps lift bar



No. 147-X Two-Row Marker and Coverer

Same as No. 142-2 except that it has centre lockdown instead of double lockdown and Covering Frame shown in Fig. 524, page 6, is furnished. Unlike the No. 147 shown on page 6 it cannot be built up. No lifting spring comes on this machine. Packed weight, 324 lbs.

No. 142-3 Three-Row Furrower

Same as No. 142-2 except Marker Bar is 1 foot longer, has long axle same as No. 142-4, and three *Furrowers* are used as in Fig. 441, instead of discs. This machine has the Lifting Spring.

Discs are needed in trashy ground but in clean, smooth ground, the discs throw the soil out one side only—then when the covering discs are used, it is more difficult to cover uniformly and there is a tendency of the covering discs to draw away from the row on account of sod or dirt clods in the ridge thrown up by the marking discs. The furrowers throw the soil out equally each side and when covering discs follow, the work is uniform. The furrowers can be set to mark three rows, 3 feet apart or two rows, 6 feet apart or as narrow as desired in either case.

The Furrowers can be applied to any IRON AGE Row Marker, and can be ordered as an attachment.

Fig. 441

Black parts show three furrower attachment